

Title (en)
Method of making optical waveguide preforms.

Title (de)
Verfahren zur Herstellung von Vorformen für optische Wellenleiter.

Title (fr)
Procédé de fabrication de préformes de guide d'ondes.

Publication
EP 0604785 A1 19940706 (EN)

Application
EP 93119584 A 19931206

Priority
US 99720492 A 19921228

Abstract (en)
In the mfr. of a preform from which optical waveguide fibre is drawn is provided. In this method a first soot stream and a second soot stream are separately formed and then directed to and collected on a mandrel. The streams are produced by oxidising separately generated vapour flows at first and second oxidation sites. The flow to the first site contains at least a first precursor (I) and that to the second site contains at least a second precursor (II) but not (I). Also claimed is a method where first and second vapour flows are oxidised into separate first and second soot particle streams. The first vapour flow contains at least (I) and (II). The second vapour flow contains at least (II) but not (I). Pref. (I) is a cpd, which forms SiO₂ on oxidn, a metal halide or an organometallic cpd or a combination of precursors for SiO₂ and GeO₂ which combination is formed before delivering the first vapour flow to the oxidn. site. (II) contains precursors for at least one of GeO₂, TiO₂, rare earth oxide or other meal oxides. (II) is a beta-diketonate complex.

IPC 1-7
C03B 37/014

IPC 8 full level
C03B 37/018 (2006.01); **C03B 8/04** (2006.01); **C03B 37/014** (2006.01); **G02B 6/00** (2006.01)

CPC (source: EP KR US)
C03B 37/01413 (2013.01 - EP US); **C03B 37/0142** (2013.01 - EP KR US); **C03B 37/018** (2013.01 - KR); **C03B 2201/31** (2013.01 - EP US); **C03B 2201/34** (2013.01 - EP KR US); **C03B 2201/36** (2013.01 - EP US); **C03B 2207/06** (2013.01 - EP US); **C03B 2207/12** (2013.01 - EP KR US); **C03B 2207/20** (2013.01 - EP KR US); **C03B 2207/28** (2013.01 - EP US); **C03B 2207/32** (2013.01 - EP US); **C03B 2207/50** (2013.01 - EP US)

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Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
US 5296012 A 19940322; AU 5250093 A 19940707; AU 662851 B2 19950914; CA 2109474 A1 19940629; CN 1052964 C 20000531; CN 1090258 A 19940803; DE 69323980 D1 19990422; DE 69323980 T2 19991014; EP 0604785 A1 19940706; EP 0604785 B1 19990317; JP H06234537 A 19940823; KR 100286271 B1 20010416; KR 940015542 A 19940721; TW 246749 B 19950501

DOCDB simple family (application)
US 99720492 A 19921228; AU 5250093 A 19931220; CA 2109474 A 19931028; CN 93121595 A 19931228; DE 69323980 T 19931206; EP 93119584 A 19931206; JP 34118293 A 19931213; KR 930030045 A 19931227; TW 82109206 A 19931029